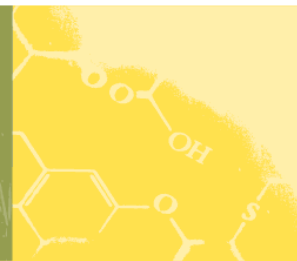




WHERE BUSINESS AND THE ENVIRONMENT CONVERGE



30 Harris Place, Brattleboro, VT 05301 tel 802.257.1195 fax 802.257.1603 www.ecsconsult.com

Ms. Patricia Coppolino
Vermont Department
of Environmental Conservation
Sites Management Section
Brownfields Response Program
103 South Main Street
Waterbury, VT 05671-0404

May 12, 2011
Project No. 04-214807
Document No. 40191

RE: Summary Report
348 Center Street
Pownal, Vermont
SMS# 20043202

Dear Ms. Coppolino:

Environmental Compliance Services, Inc. (ECS) of Brattleboro, Vermont, has prepared this summary report detailing site investigation activities completed at 348 Center Street in Pownal, Vermont (the site). Site investigation activities included a level survey used to determine groundwater elevations at the site and groundwater sampling of the monitoring wells to determine subsurface impacts to groundwater. The objectives of this site investigation were to:

1. Survey and gauge all monitoring wells at the site to determine groundwater flow;
2. Collect a round of groundwater samples from all monitoring wells. Samples will be analyzed for Volatile Organic Compounds (VOCs) by EPA Method 82601B and 13 priority pollutant (PP13) metals. Samples will be collected utilizing EPA low flow methods;
3. Determine if offsite migration of groundwater contamination may be present and the potential for the overburden aquifer to impact the confined bedrock aquifer;
4. Assess the potential for contaminant impact on sensitive receptors; and
5. Submit a summary report that outlines the work performed, as well as provides conclusions and recommendations.

This work was performed under the terms, conditions, and rate schedule of ECS' American Recovery and Reinvestment Act (ARRA) funded Contract with the Vermont Department of Environmental Conservation (VTDEC). Figures 1 and 2 are included as a Site Locus and Site Plan respectively, as Attachment I.

SUMMARY OF SENSITIVE RECEPTOR AND LEVEL SURVEY

On November 8, 2010, ECS visited the site to survey the casing elevations of the existing monitoring wells and to assess sensitive receptors in the area. Of the five wells installed in 2006 by Tighe and Bond, only two could be located (MW-2 and MW-5). The remaining wells could not be found, even with the assistance of a metal detector. It is believed that MW-1 has been paved over, as a strong magnetic signal was observed by our metal detector and concrete was observed in the area under some broken up pavement where this well should have been located. Well MW-3 may have been disturbed or damaged

during the reported installation of a new water line between the well house and the commercial building along the road, or during septic line upgrades between the house and the newly-installed sewer line in the street. MW-4 could not be located using the metal detector.

In surveying the elevations of wells MW-2 and MW-5, it was determined that, assuming the top of the PVC well casing (TPVC) elevation of MW-5 was the same as established by Tighe and Bond in their 2007 report, the TPVC elevation of well MW-2 was approximately 0.2 feet higher in elevation. Water level measurements, and elevations calculated from these data, indicate groundwater to be flowing in the general direction from MW-2 toward MW-5. However, because a third monitoring well was not available to be surveyed, the specific direction of groundwater flow could not be calculated by typical triangulation techniques. Table 1 below summarizes the survey data collected on November 8, 2010.

TABLE 1			
348 Center Street, Pownal, VT			
Summary of Monitoring Well and Groundwater Elevations			
WELL ID	Elevation of TPVC (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-2	1000.91	3.22	997.69
MW-5	1002.14	4.82	997.32

SUMMARY OF GROUNDWATER SAMPLING

ECS conducted a groundwater sampling event on December 2, 2010. Groundwater samples were collected from select monitoring wells following standard low-flow sampling protocols using disposable polyethylene sample tubing. Prior to sampling, the depth to water was measured in each monitoring well utilizing a Solinst Oil Interface Probe. Groundwater samples were collected in laboratory-supplied containers and transferred to Spectrum Analytical of Agawam, Massachusetts following standard chain-of-custody protocol. Copies of the groundwater sampling logs are provided in Attachment II which provide details of sampling flow rates. The laboratory reports and chain-of-custody records are provided as Attachment III.

Groundwater samples were collected at monitoring wells MW-2 and MW-5. These samples were submitted to Spectrum for Volatile Organic Compounds (VOC) analysis via EPA Method 8260B Vermont Scan and the 13 Priority Pollutant Metals (PP-13) analysis (total metals).

GROUNDWATER SAMPLING RESULTS

In summary VOC compounds were detected in MW-5 at concentrations exceeding the Vermont Preventative Action Level (VTPAL) and Vermont Enforcement Standards (VTES). Laboratory analytical results are summarized in Table 2 in Attachment IV. The following summarizes the groundwater sampling results:

The following compounds exceeded VTPAL and VTES:

- MW-5 - benzene (14.6 µg/L) and naphthalene (30.1 µg/L).

The following compounds were detected above laboratory detection limits but below VTPAL and VTES:

- MW-5 – ethylbenzene (248 µg/L), toluene (89.9 µg/L), total xylenes (212 µg/L), 1,2,4-Trimethylbenzene (209 µg/L) and 1,3,5-Trimethylbenzene (36.4 µg/L).

No VOC compounds were detected above laboratory detection limits in MW-2.

Trace metal compounds were detected above laboratory detection limits in MW-5 and MW-2; however, these concentrations did not exceed VTPAL or VTES:

- MW-5 – arsenic (0.0065 µg/L), nickel (0.005 µg/L) and zinc (0.0222 µg/L); and
- MW-2 – zinc (0.0238 µg/L).

CONCLUSIONS AND RECOMMENDATIONS

ECS makes the following conclusions and recommendations based on the results of this investigation:

Determine if offsite migration of groundwater contamination may be present and the potential for the overburden aquifer to impact the confined bedrock aquifer.

Because many of the previously existing wells could not be located and may have been destroyed, the extent of the plume beyond the site boundaries cannot be determined based on the assessment activities conducted as part of this investigation, as VOCs were only detected in MW-5 and there are no other downgradient wells. Well MW-2 is located upgradient of the former UST location; no compounds indicative of contamination were detected in the groundwater sample from this well.

Any potential impact to bedrock cannot be determined using the existing monitoring well network. Based on data from Tighe and Bond's phase 1 site assessment completed in 2006 at the site, the depth to bedrock in this area is approximately 8.5 feet. Due to the shallow depth of bedrock there is a possibility that the bedrock aquifer has been impacted.

Concentrations of the VOCs benzene and naphthalene were detected above enforcement standards in groundwater samples collected from MW-5 in December 2010. As presented on Table 2, concentrations of these VOCs have increased since groundwater samples were collected in 2006. This may have been due to higher groundwater elevations (3.44 fbg on 12/2/2010 as compared to 6.43 fbg on 10/18/2006).

Assess the potential for contaminant impact on sensitive receptors.

Monitoring well MW-5 is roughly 30 feet from a commercial site building. Since groundwater is shallow (within three to four feet), there is a possibility that VOC vapor intrusion may be an issue in the commercial building. Furthermore, monitoring well MW-5 is also located within approximately 100 yards of a small wetland. Since surface water samples were not collected, the impact to the wetlands is unknown.

Total metals concentrations in groundwater show a decrease between the 2010 and 2006 sampling events. This could be due to the manner in which groundwater samples were collected (e.g., bailer sampling versus low-flow sampling) or the fact that metals in soil were removed during removal of the underground storage tank (UST), thereby reducing the concentrations of metals in the groundwater.

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Ms. Patricia Coppelino
VTDEC
May 12, 2011

Page 4

Based on these conclusions, ECS makes the following recommendations:

1. Install a replacement monitoring well for MW-1, and install one new well downgradient of MW-5 near the edge of the wetland. Sampling these wells will allow evaluation of current groundwater concentrations downgradient of the area of greatest impact, specifically the wetland area. Furthermore, water level measurements from these wells will help to establish the actual groundwater flow direction.
2. Install a shallow piezometer at the edge of the wetlands to allow determination of any vertical hydraulic gradient that may be present at the wetland. By measuring the water level inside the piezometer and comparing it to the water level of the water body outside the piezometer, a determination of vertical hydraulic gradient can be made. The piezometer would be constructed of a three-foot long drive point coupled to a length of iron pipe, with the point driven into the sediments of the wetland to a total depth of between three and six feet.
3. Complete an elevation survey of new wells and piezometer to allow accurate calculation of water level elevations.
4. Collect groundwater samples using low-flow sampling methods from all new and existing wells at the site. Collect a sample of the surface water in the wetland. Samples should be analyzed for VOCs and metals. Water level measurements should be collected from the wells and the surface water of the wetland to evaluate groundwater flow conditions.
5. Complete a boring to the top of bedrock or into bedrock and install a monitoring well to allow evaluation of groundwater quality at the bedrock surface or in the bedrock aquifer. This would only be necessary if a downward hydraulic gradient were present at the site. The presence of a downward gradient could be established by installing a well couplet at one of the monitoring well locations.

Thank you for the opportunity to present the results of this investigation. If you have any questions, please do not hesitate to contact me.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.



Richard P. Geisler, P.G., LSP
Senior Hydrogeologist/Branch Manager

RPG/kab
Attachments

ATTACHMENT I

SITE LOCUS (FIGURE 1) & SITE PLAN (FIGURE 2)



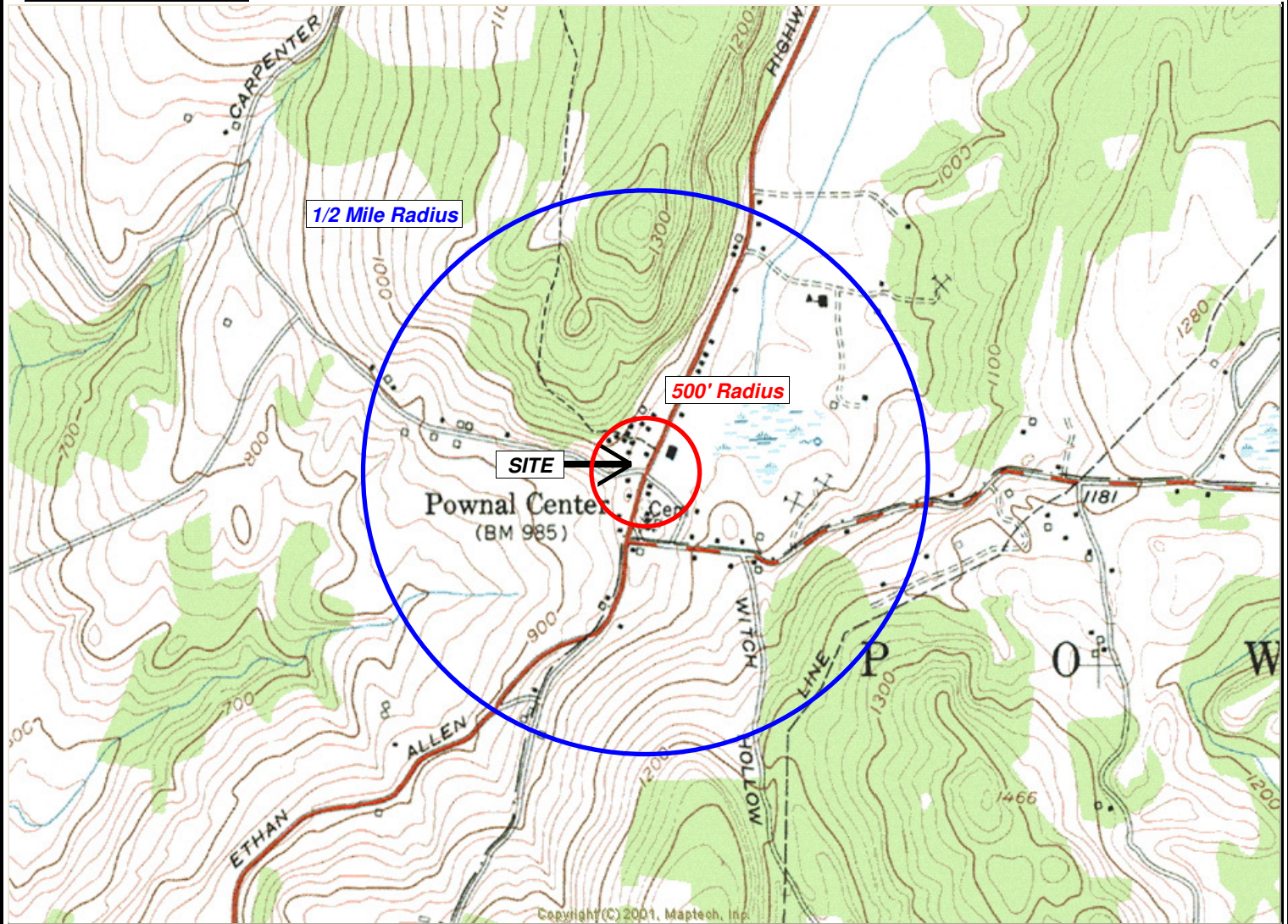
Environmental Compliance Services, Inc.
30 Harris Place, Brattleboro, VT 05301
Phone (802)-257-1195 Fax (802)-257-1603
www.ecsconsult.com

SITE LOCUS

Figure: 1

**384 Center Street, Pownal, VT
384 Center Street
Pownal, VT
05201**

Job Number: 04-214807



1 1/2 0 1 Mile

1 inch = 1500 feet

Contour Interval: 20 Feet

North

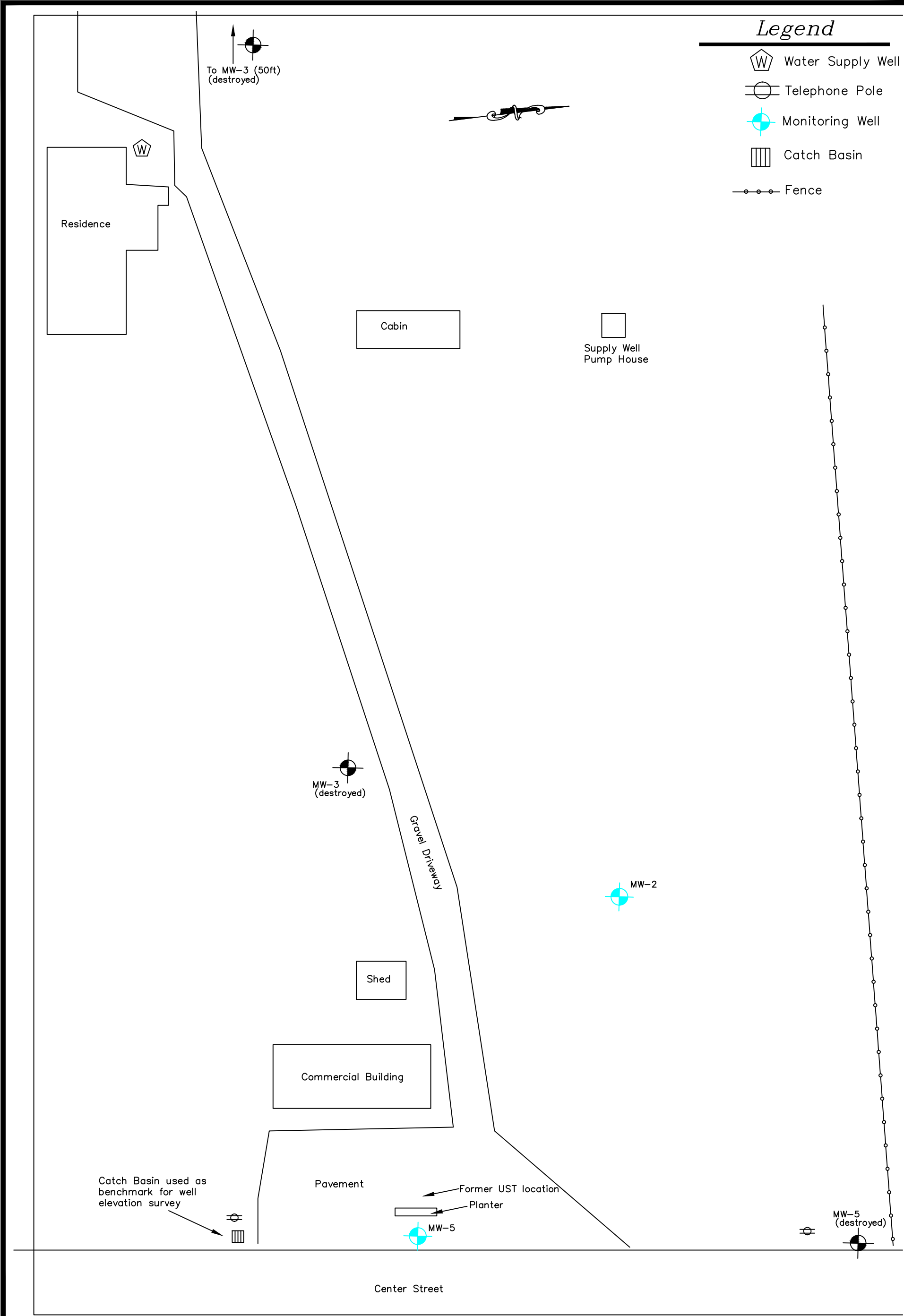
Base Map: U.S. Geological Survey; Quadrangle Location: Pownal, Vermont



Latitude and Longitude: 042d 47" 47.40' North / 073d 13" 26.14' West

Map Edited: 1954

Map Revised: None

Generated By: HH



<div></div> <div>588 Silver Street • Agawam, MA 01001 Phone: 1-800-789-3530 Fax: 413-789-2776</div>	CLIENT:	Vermont DEC	PROJECT:	Site Investigation		COMPUTER CADFILE : 214309 SITE PLAN			
	GRAPHIC SCALE: 			348 Center Street Pownal, Vermont	DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	
					WV	WV	LG	RPG	
					SCALE:	DATE:	JOB NO.:	FIGURE NO.:	
					TITLE:			NTS	Jan 2011

ATTACHMENT II
GROUNDWATER SAMPLING LOGS

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: 348 Center St., Poultney, VT
 Project No.: 04-214807
 Date: 12/2/10
 Weather: cloudy 40s

Well ID: MW-5
 Sample ID: MW-5
 Sampler: W. Verman

Well Condition Observations	
Protective Casing:	
Lock:	
Label:	<u>Good</u>
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter:	<u>1"</u>
Depth to Water:	<u>3.44</u>
Total Depth:	<u>7.85</u>
Volume Purged:	<u>2.0 gal</u>

Pump Start: 10:50

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE <small>(µS/cm)</small>	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
10:50	3.44	6.90	9.66	0.674	6.01	-55.7	
10:53		6.81	9.10	0.658	3.19	-44.6	
10:56		6.70	9.30	0.674	2.35	-46.8	
10:59		6.77	9.62	0.703	2.43	-67.5	
11:02		6.78	9.82	0.706	3.75	-72.4	
11:05		6.78	9.72	0.708	3.50	-71.2	
11:08		6.79	9.71	0.707	3.01	-71.5	
11:11		6.79	9.65	0.706	2.99	-71.3	
11:14	3.45	6.80	9.61	0.705	3.08	-70.0	15.3
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sample taken @ 11:15

Sampling/Purging Equipment	
Water Level Meter:	<u>Solinst 1P pipe</u>
pH/S.C./Dissolved Oxygen/ORP:	<u>YSI 646 MP3</u>
Turbidity:	<u>2100P Turbidity meter</u>
Pump:	<u>Geopump</u>

Laboratory Analyses/Containers		
Container	Preservative	Analysis
<u>3 vials</u>	<u>HCl</u>	<u>VOCS</u>
<u>1 vial</u>	<u>HNO₃</u>	<u>PPIS</u>

Sample Time: 11:15

Comments: unable to take DTW continuously due to 1" pvc well pump pumping @ 200 ml/min
- odor

Notes: MW-1 - appears to have been paved over
 MW-3 - may have been dug up during the installation of a water line in 2009
 MW-4 - unable to locate

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: 348 Center St, Pownal, VT
 Project No.: 04-214807
 Date: 12/2/10
 Weather: Cloudy 30s

Well ID: MW-2
 Sample ID: MW-2
 Sampler: W. Vermay

Well Condition Observations	
Protective Casing:	
Lock:	
Label:	<u>Good</u>
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter:	<u>1"</u>
Depth to Water:	<u> </u>
Total Depth:	<u>8.54</u>
Volume Purged:	

Pump Start: 11:57

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE <small>mg/Lm</small> (µS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
11:59	—	7.72	7.61	0.201	10.83	-48.9	
12:02		7.62	6.48	0.196	10.63	-22.6	
12:05		7.50	5.86	0.193	10.49	-0.2	
12:08		7.42	5.63	0.192	10.36	13.4	
12:11		7.42	5.60	0.192	10.35	16.9	
12:14		7.41	5.58	0.191	10.27	21.5	
12:17		7.44	5.58	0.191	10.25	23.1	
12:20	—	7.43	5.58	0.191	10.21	26.8	14.2
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sample taken
 @ 12:21

Sampling/Purging Equipment	
Water Level Meter:	<u>Soleist Interface Meter</u>
pH/S.C./Dissolved Oxygen/ORP:	<u>YSI 556 MPS</u>
Turbidity:	<u>2100 Turbidimeter</u>
Pump:	<u>geopump 2</u>

Laboratory Analyses/Containers		
Container	Preservative	Analysis
<u>3 vOA</u>	<u>HCl</u>	<u>VOLs</u>
<u>1 Social</u>	<u>HNO₃</u>	<u>PP13</u>

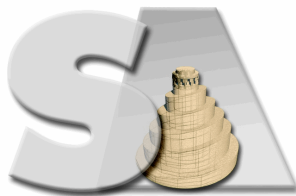
Sample Time:

Comments: - DTW is at top of PVC casing well is submerged
- pump pumping @ ~200 ml/min
- no odor

ATTACHMENT III

LABORATORY ANALYTICAL REPORT

Report Date:
20-Dec-10 13:52



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Environmental Compliance Services
30 Harris Place
Brattleboro, VT 05301
Attn: Richard Geisler

Project: 348 Center St-Pownal, VT
Project #: 04-214807

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB22024-01	MW-5	Ground Water	02-Dec-10 11:15	06-Dec-10 11:10
SB22024-02	MW-2	Ground Water	02-Dec-10 12:21	06-Dec-10 11:10
SB22024-03	Trip	Deionized Water	02-Dec-10 09:00	06-Dec-10 11:10

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 2.6 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 0.8 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Duplicates:

1025933-DUP1 *Source: SB22024-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

SW846 8260B/C

Laboratory Control Samples:

1026102-BSD1

LCS/LCSD were analyzed in place of MS/MSD.

Samples:

S011258-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Methyl tert-butyl ether (25.1%)

This affected the following samples:

1026102-BLK1
1026102-BS1
1026102-BSD1
MW-2
MW-5
Trip

SB22024-01 *MW-5*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

Sample Identification

MW-5

SB22024-01

Client Project #

04-214807

Matrix

Ground Water

Collection Date/Time

02-Dec-10 11:15

Received

06-Dec-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Volatile Organic Compounds by 8260B

R05

Prepared by method SW846 5030 Water MS

71-43-2	Benzene	14.9		µg/l	10.0	10	SW846 8260B/C	16-Dec-10	16-Dec-10	EQ	1026102	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	5.0	10	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	10.0	10	"	"	"	"	"	
100-41-4	Ethylbenzene	248		µg/l	10.0	10	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	10.0	10	"	"	"	"	"	
91-20-3	Naphthalene	30.1		µg/l	10.0	10	"	"	"	"	"	
108-88-3	Toluene	89.9		µg/l	10.0	10	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	209		µg/l	10.0	10	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	36.4		µg/l	10.0	10	"	"	"	"	"	
179601-23-1	m,p-Xylene	188		µg/l	20.0	10	"	"	"	"	"	
95-47-6	o-Xylene	24.4		µg/l	10.0	10	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98			70-130 %		"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	109			70-130 %		"	"	"	"	"	
1868-53-7	Dibromofluoromethane	94			70-130 %		"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Field Preserver		N/A			1	EPA 200/6000 methods	08-Dec-10	08-Dec-10	EDT	1025359	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	BRL		mg/l	0.0050	1	SW846 6010C	16-Dec-10	16-Dec-10	HB	1025933	X
7440-38-2	Arsenic	0.0065		mg/l	0.0050	1	"	"	17-Dec-10	"	"	X
7440-41-7	Beryllium	BRL		mg/l	0.0020	1	"	"	16-Dec-10	"	"	X
7440-43-9	Cadmium	BRL		mg/l	0.0025	1	"	"	"	"	"	X
7440-47-3	Chromium	BRL		mg/l	0.0060	1	"	"	"	"	"	X
7440-50-8	Copper	BRL		mg/l	0.0050	1	"	"	"	"	"	X
7440-02-0	Nickel	0.0050		mg/l	0.0050	1	"	"	"	"	"	X
7439-92-1	Lead	BRL		mg/l	0.0075	1	"	"	"	"	"	X
7440-36-0	Antimony	BRL		mg/l	0.0060	1	"	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	"	X
7440-28-0	Thallium	BRL		mg/l	0.0050	1	"	"	"	"	"	X
7440-66-6	Zinc	0.0222		mg/l	0.0050	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	16-Dec-10	17-Dec-10	ARF	1025934	X
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This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 11

Sample Identification

MW-2

SB22024-02

Client Project #

04-214807

Matrix

Ground Water

Collection Date/Time

02-Dec-10 12:21

Received

06-Dec-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Volatile Organic Compounds by 8260B

Prepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B/C	16-Dec-10	16-Dec-10	EQ	1026102	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98			70-130 %		"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %		"	"	"	"	"	
1868-53-7	Dibromofluoromethane	92			70-130 %		"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Field Preserver		N/A			1	EPA 200/6000 methods	08-Dec-10	08-Dec-10	EDT	1025359	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	BRL		mg/l	0.0050	1	SW846 6010C	16-Dec-10	16-Dec-10	HB	1025933	X
7440-38-2	Arsenic	BRL		mg/l	0.0050	1	"	"	"	"	"	X
7440-41-7	Beryllium	BRL		mg/l	0.0020	1	"	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/l	0.0025	1	"	"	"	"	"	X
7440-47-3	Chromium	BRL		mg/l	0.0060	1	"	"	"	"	"	X
7440-50-8	Copper	BRL		mg/l	0.0050	1	"	"	"	"	"	X
7440-02-0	Nickel	BRL		mg/l	0.0050	1	"	"	"	"	"	X
7439-92-1	Lead	BRL		mg/l	0.0075	1	"	"	"	"	"	X
7440-36-0	Antimony	BRL		mg/l	0.0060	1	"	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	"	X
7440-28-0	Thallium	BRL		mg/l	0.0050	1	"	"	"	"	"	X
7440-66-6	Zinc	0.0238		mg/l	0.0050	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	16-Dec-10	17-Dec-10	ARF	1025934	X
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**Trip**

SB22024-03

Client Project #

04-214807

Matrix

Deionized Water

Collection Date/Time

02-Dec-10 09:00

Received

06-Dec-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Volatile Organic Compounds by 8260B

Prepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B/C	16-Dec-10	16-Dec-10	naa	1026102	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %		"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	107			70-130 %		"	"	"	"	"	
1868-53-7	Dibromofluoromethane	90			70-130 %		"	"	"	"	"	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026102 - SW846 5030 Water MS										
<u>Blank (1026102-BLK1)</u>					<u>Prepared & Analyzed: 16-Dec-10</u>					
Benzene	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
Naphthalene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	29.6		µg/l		30.0		98	70-130		
<i>Surrogate: Toluene-d8</i>	30.5		µg/l		30.0		102	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	32.2		µg/l		30.0		107	70-130		
<i>Surrogate: Dibromofluoromethane</i>	29.2		µg/l		30.0		97	70-130		
<u>LCS (1026102-BS1)</u>					<u>Prepared & Analyzed: 16-Dec-10</u>					
Benzene	17.9		µg/l		20.0		90	70-130		
1,2-Dibromoethane (EDB)	21.4		µg/l		20.0		107	70-130		
1,2-Dichloroethane	18.5		µg/l		20.0		92	70-130		
Ethylbenzene	17.6		µg/l		20.0		88	70-130		
Methyl tert-butyl ether	23.9		µg/l		20.0		120	70-130		
Naphthalene	20.0		µg/l		20.0		100	70-130		
Toluene	17.8		µg/l		20.0		89	70-130		
1,2,4-Trimethylbenzene	18.5		µg/l		20.0		93	70-130		
1,3,5-Trimethylbenzene	18.8		µg/l		20.0		94	70-130		
m,p-Xylene	35.0		µg/l		40.0		88	70-130		
o-Xylene	17.3		µg/l		20.0		86	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	30.2		µg/l		30.0		101	70-130		
<i>Surrogate: Toluene-d8</i>	30.4		µg/l		30.0		101	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	31.5		µg/l		30.0		105	70-130		
<i>Surrogate: Dibromofluoromethane</i>	29.2		µg/l		30.0		97	70-130		
<u>LCS Dup (1026102-BSD1)</u>					<u>Prepared & Analyzed: 16-Dec-10</u>					
Benzene	18.8	QM10	µg/l		20.0		94	70-130	5	30
1,2-Dibromoethane (EDB)	22.1		µg/l		20.0		111	70-130	4	25
1,2-Dichloroethane	21.7		µg/l		20.0		109	70-130	16	25
Ethylbenzene	18.7		µg/l		20.0		94	70-130	6	30
Methyl tert-butyl ether	24.8		µg/l		20.0		124	70-130	3	30
Naphthalene	20.4		µg/l		20.0		102	70-130	2	30
Toluene	18.2		µg/l		20.0		91	70-130	2	30
1,2,4-Trimethylbenzene	19.5		µg/l		20.0		97	70-130	5	30
1,3,5-Trimethylbenzene	19.2		µg/l		20.0		96	70-130	2	30
m,p-Xylene	37.2		µg/l		40.0		93	70-130	6	30
o-Xylene	17.9		µg/l		20.0		89	70-130	3	30
<i>Surrogate: 4-Bromofluorobenzene</i>	29.2		µg/l		30.0		97	70-130		
<i>Surrogate: Toluene-d8</i>	29.7		µg/l		30.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	31.4		µg/l		30.0		105	70-130		
<i>Surrogate: Dibromofluoromethane</i>	29.7		µg/l		30.0		99	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026102 - SW846 5030 Water MS										
<u>Matrix Spike (1026102-MS1)</u>				<u>Source: SB22024-02</u>				<u>Prepared & Analyzed: 16-Dec-10</u>		
Benzene	22.2		µg/l		20.0	BRL	111	70-130		
Chlorobenzene	20.3		µg/l		20.0	BRL	102	70-130		
1,1-Dichloroethene	25.3		µg/l		20.0	BRL	127	70-130		
Toluene	22.1		µg/l		20.0	0.5	108	70-130		
Trichloroethene	23.7		µg/l		20.0	BRL	118	70-130		
Surrogate: 4-Bromofluorobenzene	30.2		µg/l		30.0		101	70-130		
Surrogate: Toluene-d8	30.4		µg/l		30.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	34.8		µg/l		30.0		116	70-130		
Surrogate: Dibromofluoromethane	29.6		µg/l		30.0		99	70-130		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1025933 - SW846 3005A										
<u>Blank (1025933-BLK1)</u>				<u>Prepared & Analyzed: 16-Dec-10</u>						
Nickel	BRL		mg/l	0.0050						
Zinc	BRL		mg/l	0.0050						
Thallium	BRL		mg/l	0.0050						
Selenium	BRL		mg/l	0.0150						
Antimony	BRL		mg/l	0.0060						
Lead	BRL		mg/l	0.0075						
Arsenic	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0060						
Beryllium	BRL		mg/l	0.0020						
Silver	BRL		mg/l	0.0050						
Cadmium	BRL		mg/l	0.0025						
Copper	BRL		mg/l	0.0050						
<u>LCS (1025933-BS1)</u>				<u>Prepared & Analyzed: 16-Dec-10</u>						
Nickel	1.33		mg/l	0.0050	1.25		107	85-115		
Lead	1.27		mg/l	0.0075	1.25		102	85-115		
Antimony	1.29		mg/l	0.0060	1.25		104	85-115		
Selenium	1.32		mg/l	0.0150	1.25		105	85-115		
Thallium	1.24		mg/l	0.0050	1.25		99	85-115		
Zinc	1.37		mg/l	0.0050	1.25		109	85-115		
Arsenic	1.29		mg/l	0.0050	1.25		103	85-115		
Chromium	1.32		mg/l	0.0060	1.25		106	85-115		
Copper	1.24		mg/l	0.0050	1.25		100	85-115		
Beryllium	1.31		mg/l	0.0020	1.25		105	85-115		
Silver	1.23		mg/l	0.0050	1.25		99	85-115		
Cadmium	1.39		mg/l	0.0025	1.25		111	85-115		
<u>LCS Dup (1025933-BSD1)</u>				<u>Prepared & Analyzed: 16-Dec-10</u>						
Thallium	1.22		mg/l	0.0050	1.25		98	85-115	1	20
Nickel	1.30		mg/l	0.0050	1.25		104	85-115	2	20
Lead	1.25		mg/l	0.0075	1.25		100	85-115	2	20
Selenium	1.29		mg/l	0.0150	1.25		103	85-115	2	20
Zinc	1.34		mg/l	0.0050	1.25		107	85-115	2	20
Antimony	1.27		mg/l	0.0060	1.25		101	85-115	2	20
Copper	1.23		mg/l	0.0050	1.25		98	85-115	1	20
Silver	1.22		mg/l	0.0050	1.25		97	85-115	1	20
Arsenic	1.26		mg/l	0.0050	1.25		101	85-115	2	20
Beryllium	1.30		mg/l	0.0020	1.25		104	85-115	1	20
Cadmium	1.36		mg/l	0.0025	1.25		109	85-115	2	20
Chromium	1.30		mg/l	0.0060	1.25		104	85-115	1	20
<u>Duplicate (1025933-DUP1)</u>				<u>Source: SB22024-01</u>	<u>Prepared & Analyzed: 16-Dec-10</u>					
Nickel	0.0053		mg/l	0.0050		0.0050			5	20
Zinc	0.0218		mg/l	0.0050		0.0222			2	20
Thallium	BRL		mg/l	0.0050		BRL				20
Lead	BRL		mg/l	0.0075		BRL				20
Selenium	BRL		mg/l	0.0150		BRL				20
Antimony	BRL		mg/l	0.0060		BRL				20
Chromium	BRL		mg/l	0.0060		BRL				20
Copper	BRL		mg/l	0.0050		BRL				20
Cadmium	0.0004	J	mg/l	0.0025		0.0004			0	20
Beryllium	BRL		mg/l	0.0020		BRL				20
Arsenic	0.0043	J,QR8	mg/l	0.0050		0.0065			41	20
Silver	BRL		mg/l	0.0050		BRL				20

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* Reportable Detection Limit

BRL = Below Reporting Limit

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1025933 - SW846 3005A										
<u>Matrix Spike (1025933-MS1)</u>				<u>Source: SB22024-02</u>			<u>Prepared & Analyzed: 16-Dec-10</u>			
Thallium	1.24		mg/l	0.0050	1.25	BRL	99	75-125		
Nickel	1.28		mg/l	0.0050	1.25	0.0012	102	75-125		
Lead	1.24		mg/l	0.0075	1.25	BRL	99	75-125		
Selenium	1.28		mg/l	0.0150	1.25	BRL	102	75-125		
Zinc	1.35		mg/l	0.0050	1.25	0.0238	106	75-125		
Antimony	1.27		mg/l	0.0060	1.25	BRL	101	75-125		
Beryllium	1.28		mg/l	0.0020	1.25	BRL	103	75-125		
Arsenic	1.26		mg/l	0.0050	1.25	BRL	101	75-125		
Cadmium	1.34		mg/l	0.0025	1.25	BRL	107	75-125		
Chromium	1.30		mg/l	0.0060	1.25	BRL	104	75-125		
Copper	1.26		mg/l	0.0050	1.25	0.0022	100	75-125		
Silver	1.23		mg/l	0.0050	1.25	BRL	99	75-125		
<u>Matrix Spike Dup (1025933-MSD1)</u>				<u>Source: SB22024-02</u>			<u>Prepared & Analyzed: 16-Dec-10</u>			
Antimony	1.26		mg/l	0.0060	1.25	BRL	101	75-125	0.5	20
Selenium	1.28		mg/l	0.0150	1.25	BRL	102	75-125	0.08	20
Nickel	1.27		mg/l	0.0050	1.25	0.0012	102	75-125	0.3	20
Thallium	1.23		mg/l	0.0050	1.25	BRL	98	75-125	0.4	20
Lead	1.24		mg/l	0.0075	1.25	BRL	99	75-125	0.1	20
Zinc	1.34		mg/l	0.0050	1.25	0.0238	106	75-125	0.4	20
Chromium	1.30		mg/l	0.0060	1.25	BRL	104	75-125	0.2	20
Copper	1.25		mg/l	0.0050	1.25	0.0022	100	75-125	0.5	20
Cadmium	1.34		mg/l	0.0025	1.25	BRL	107	75-125	0.1	20
Beryllium	1.29		mg/l	0.0020	1.25	BRL	103	75-125	0.04	20
Silver	1.23		mg/l	0.0050	1.25	BRL	98	75-125	0.3	20
Arsenic	1.26		mg/l	0.0050	1.25	BRL	101	75-125	0.4	20
<u>Post Spike (1025933-PS1)</u>				<u>Source: SB22024-02</u>			<u>Prepared & Analyzed: 16-Dec-10</u>			
Zinc	1.26		mg/l	0.0050	1.25	0.0238	99	80-120		
Nickel	1.19		mg/l	0.0050	1.25	0.0012	95	80-120		
Thallium	1.16		mg/l	0.0050	1.25	BRL	93	80-120		
Selenium	1.19		mg/l	0.0150	1.25	BRL	95	80-120		
Antimony	1.16		mg/l	0.0060	1.25	BRL	92	80-120		
Lead	1.17		mg/l	0.0075	1.25	BRL	93	80-120		
Beryllium	1.20		mg/l	0.0020	1.25	BRL	96	80-120		
Copper	1.17		mg/l	0.0050	1.25	0.0022	94	80-120		
Cadmium	1.26		mg/l	0.0025	1.25	BRL	101	80-120		
Arsenic	1.18		mg/l	0.0050	1.25	BRL	94	80-120		
Silver	1.16		mg/l	0.0050	1.25	BRL	93	80-120		
Chromium	1.23		mg/l	0.0060	1.25	BRL	98	80-120		

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1025934 - EPA200/SW7000 Series										
<u>Blank (1025934-BLK1)</u>								<u>Prepared: 16-Dec-10 Analyzed: 17-Dec-10</u>		
Mercury	BRL		mg/l	0.00020						
<u>LCS (1025934-BS1)</u>								<u>Prepared: 16-Dec-10 Analyzed: 17-Dec-10</u>		
Mercury	0.00530		mg/l	0.00020	0.00500		106	85-115		
<u>Duplicate (1025934-DUP1)</u>								<u>Prepared: 16-Dec-10 Analyzed: 17-Dec-10</u>		
Mercury	BRL		mg/l	0.00020		BRL				20
<u>Matrix Spike (1025934-MS1)</u>								<u>Prepared: 16-Dec-10 Analyzed: 17-Dec-10</u>		
Mercury	0.00522		mg/l	0.00020	0.00500	BRL	104	75-125		
<u>Matrix Spike Dup (1025934-MSD1)</u>								<u>Prepared: 16-Dec-10 Analyzed: 17-Dec-10</u>		
Mercury	0.00523		mg/l	0.00020	0.00500	BRL	105	75-125	0.2	20
<u>Post Spike (1025934-PS1)</u>								<u>Prepared: 16-Dec-10 Analyzed: 17-Dec-10</u>		
Mercury	0.00497		mg/l	0.00020	0.00500	BRL	99	85-115		

Notes and Definitions

QM10	LCS/LCSD were analyzed in place of MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja



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SB 77024 (a)

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ATTACHMENT IV

TABLE 2 – GROUNDWATER RESULTS SUMMARY TABLE

348 Center Street, Pownal, VT

Antimony	3	6	BRL (<0.006)	17	NA	BRL (<0.006)	14.00	NA
Arsenic	1	10	0.0065	95	NA	BRL (<0.0050)	95.00	NA
Cadmium	2.5	5	BRL (<0.0025)	6.3	NA	BRL (<0.0025)	6.10	NA
Chromium	50	100	BRL (<0.006)	150	NA	BRL (<0.006)	80.00	NA
Copper	0.5	1	BRL (<0.005)	450	NA	BRL (<0.005)	250.00	NA
Lead	1.5	15	BRL (<0.0075)	200	NA	BRL (<0.0075)	100.00	NA
Mercury	0.5	2	BRL (<0.0002)	0.073J	NA	BRL (<0.0002)	0.11	NA
Nickel	50	100	0.005	340	NA	BRL (<0.0050)	250.00	NA
Zinc	2.5	5	0.0222	640	NA	0.0238	560	NA

VOCs - Volatile Organic Compounds by EPA Method 8260B (VT Scan)

SVOCs - Semi-Volatile Organic Comounds by EPA Method 8270

13 Priority Pollutant Total Metals by EPA Method 245.1

µg/L- Micrograms per Liter

mg/L - Milligrams per Liter

BRL - Below Reporting Limits. Reporting limit is included in parentheses

Bold and shaded values represent an exceedance of Vermont Primary Groundwater Quality Standards

J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value

* Sampling 10/18/2006 conducted by Tighe and Bond

NA - Not Analyzed

NS - No Primary Groundwater Quality Standards have been established for these compounds.